

Figure 1

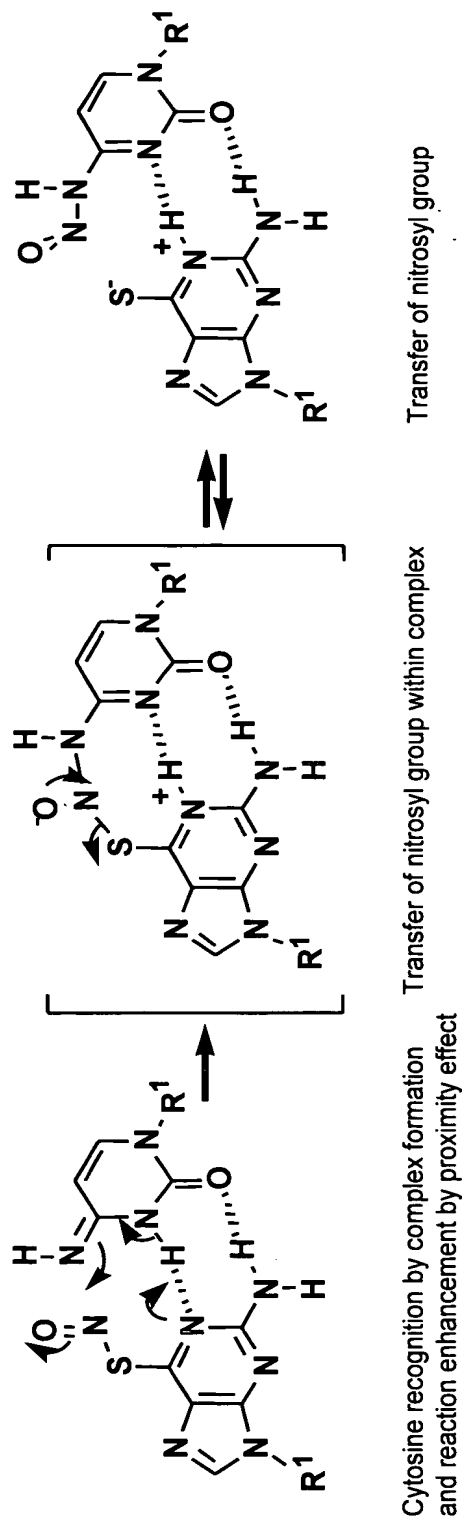
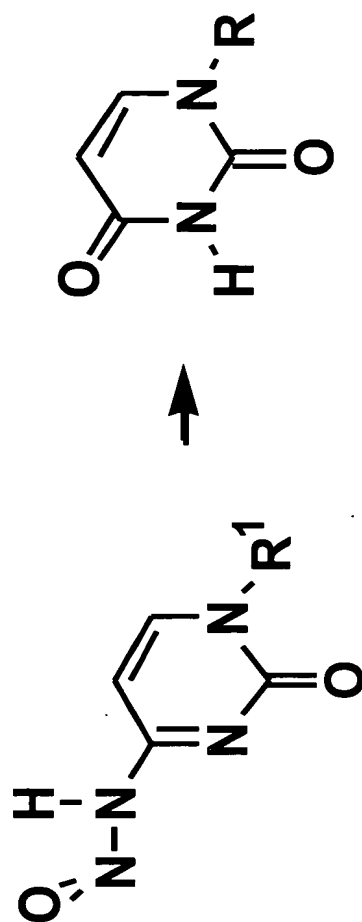


Figure 2



Hydrolysis of N-nitroso form into carbonyl group

Figure 3

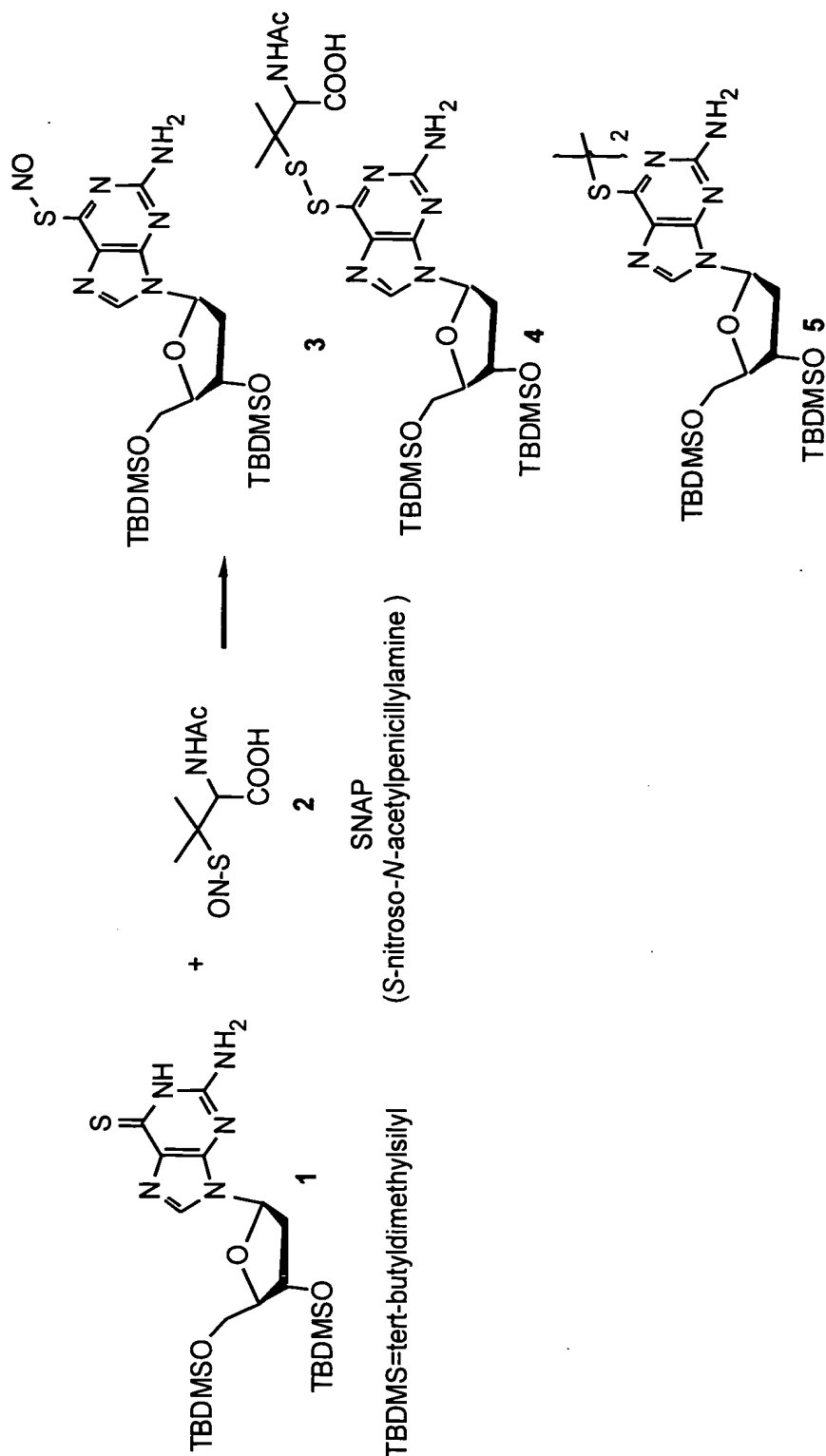


Figure 4

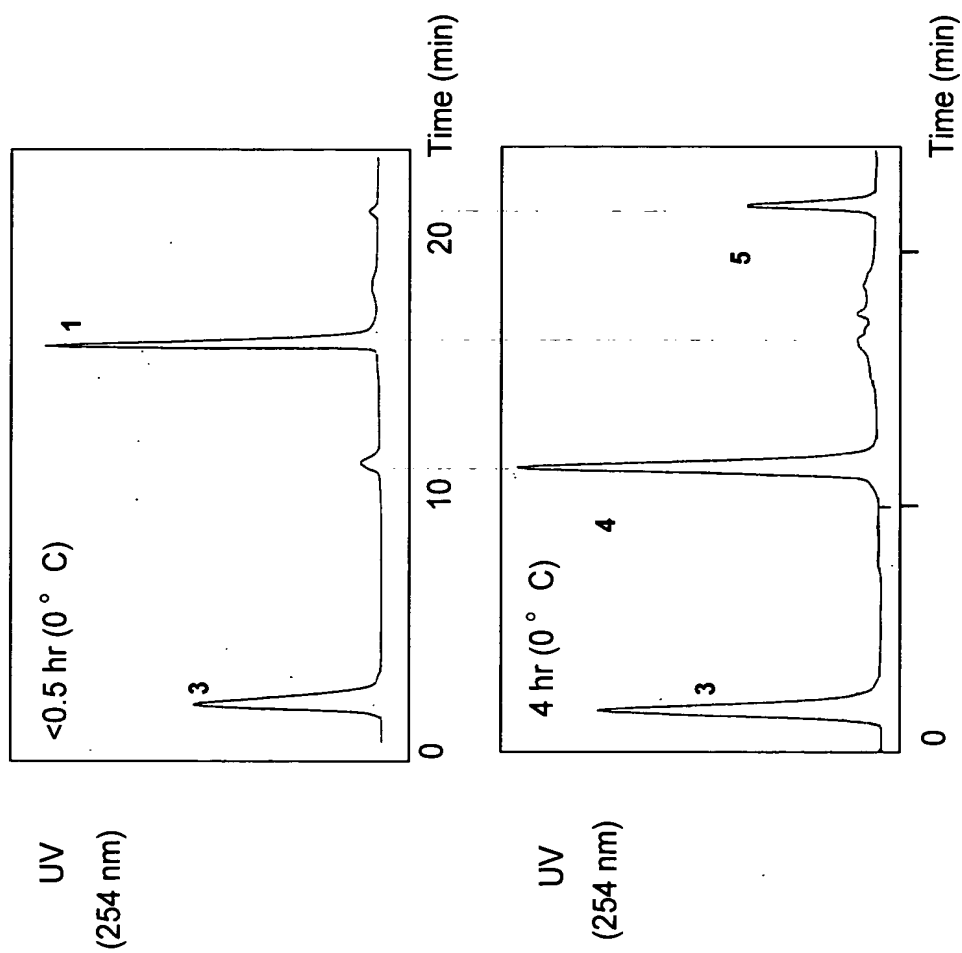


Figure 5

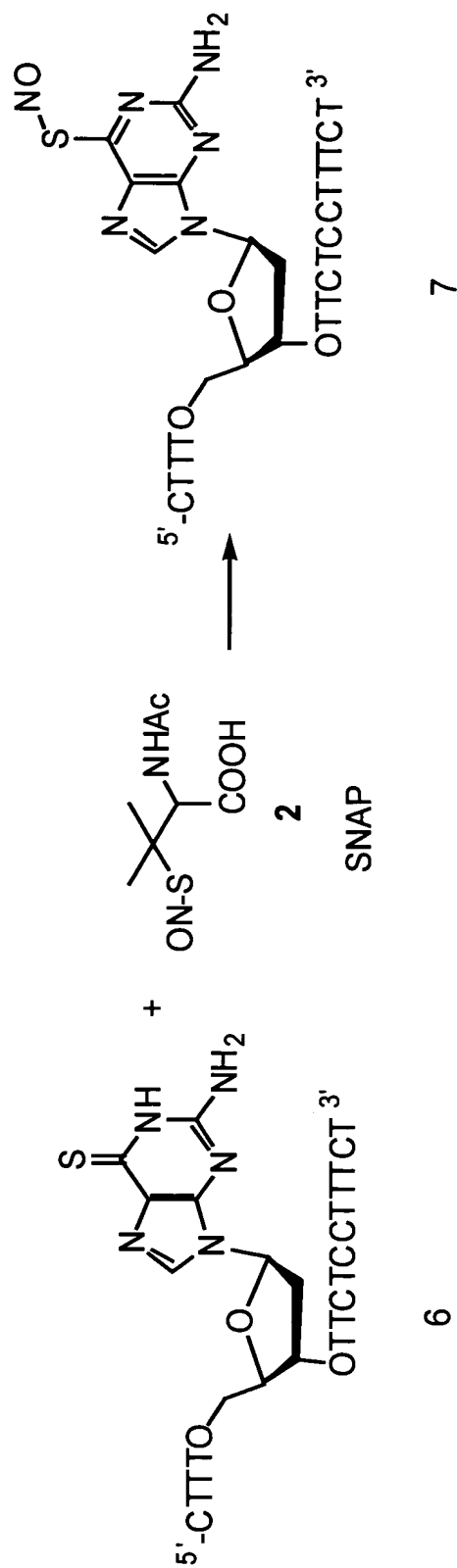


Figure 6

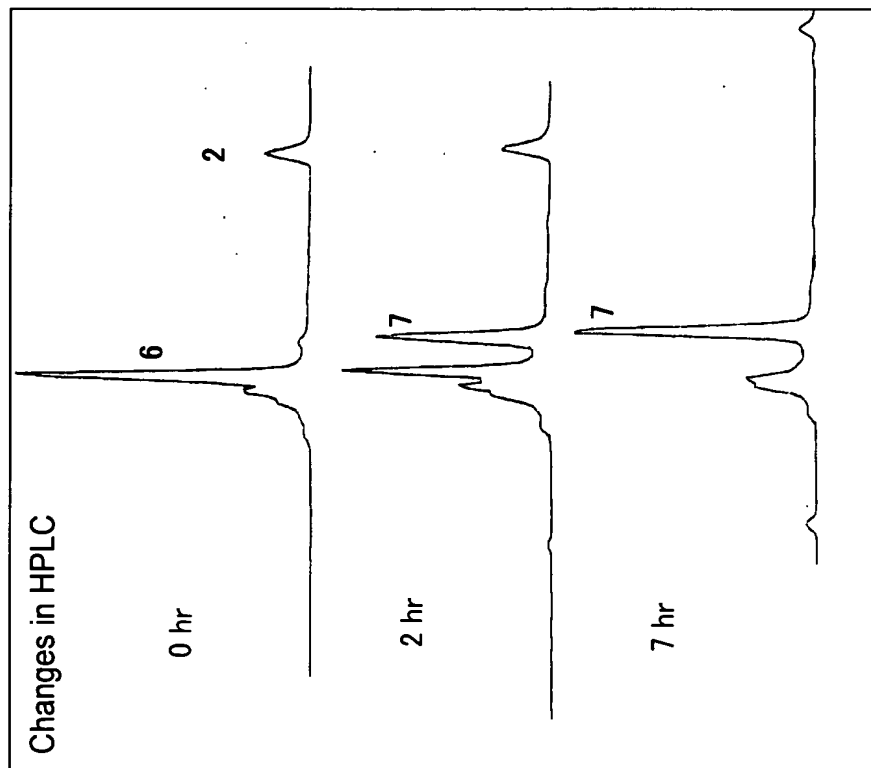


Figure 7

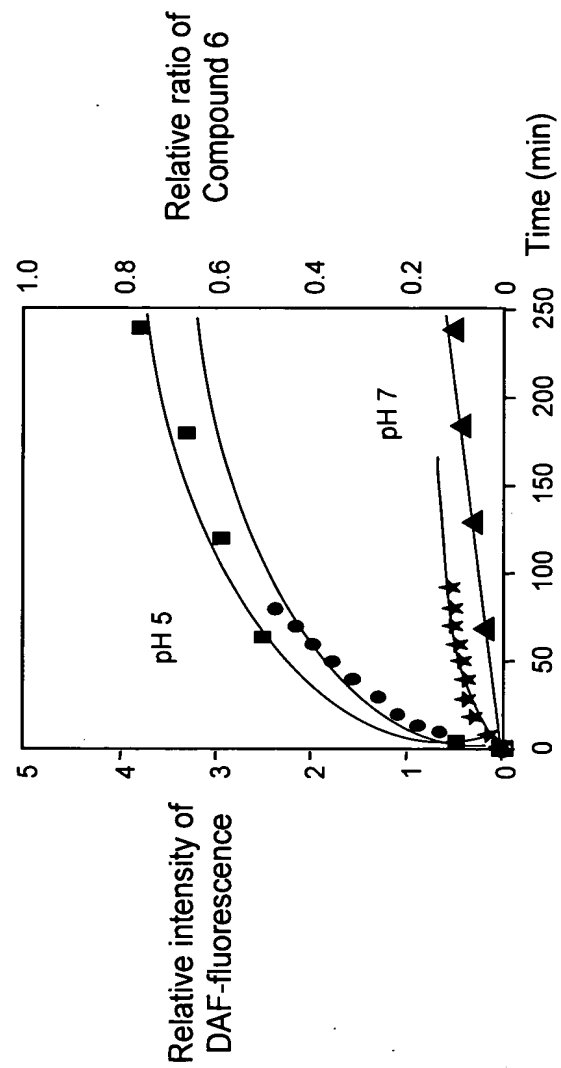
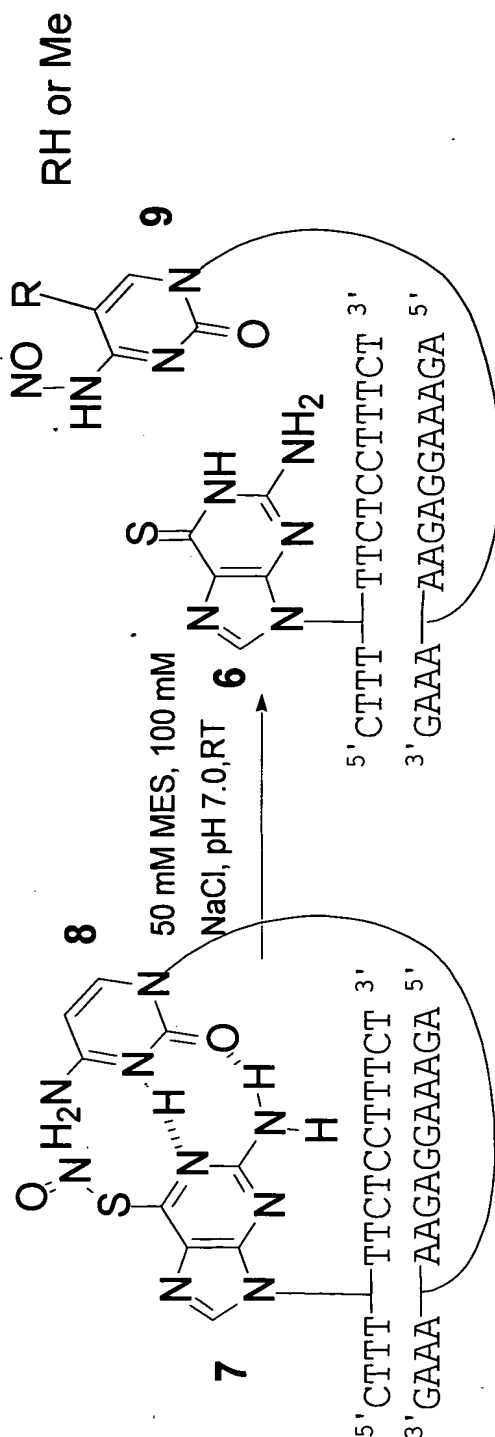


Figure 8



- 8:** 3' GAAA-X-AAGAGGAAAGA 5'
10: 3' GAAA-T-CAGAGGAAAGA 5'
11: 3' GAAA-T-ACGAGGAAAGA 5'
12: 3' GAAA-T-AAAGAGGAAAGA 5'
13: Glutathione

X=C, ^mC, T, A, G
 (^mC=5-methylcytidine)

Figure 9

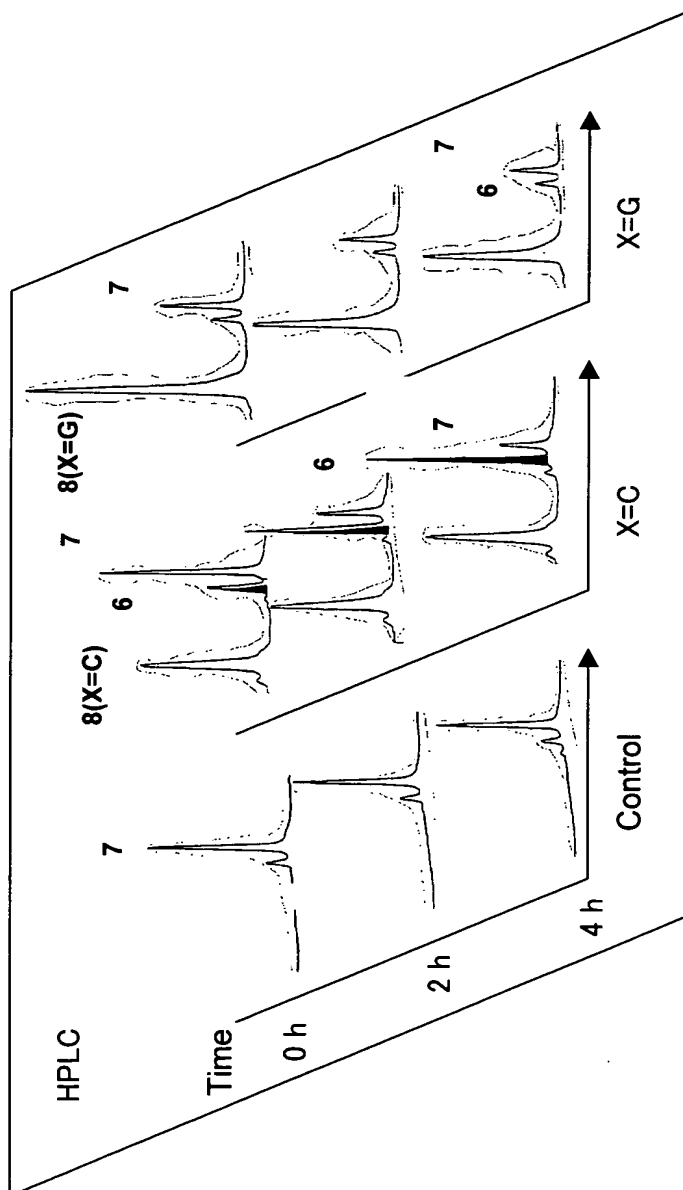


Figure 10

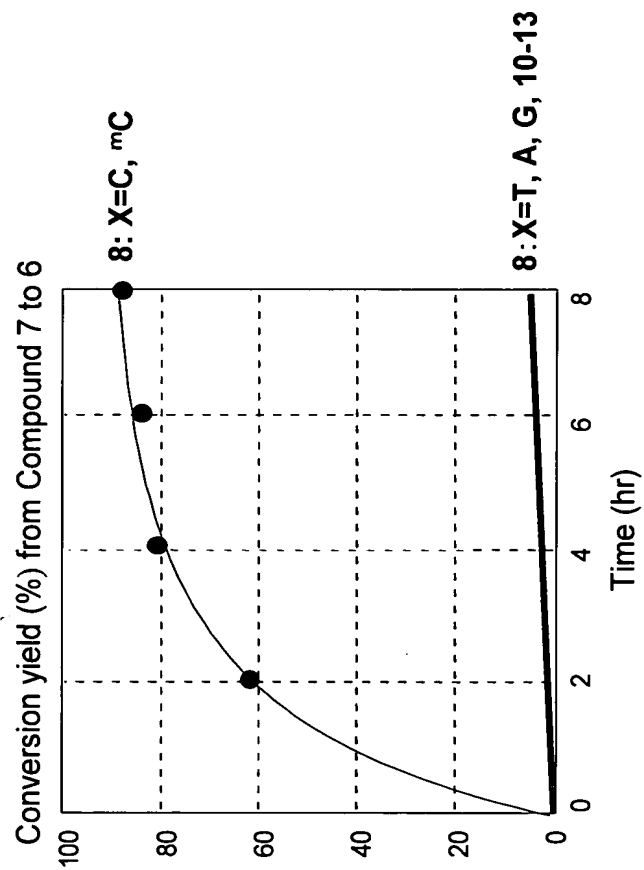
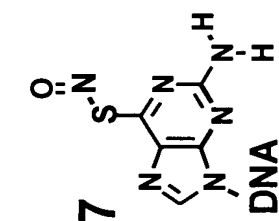


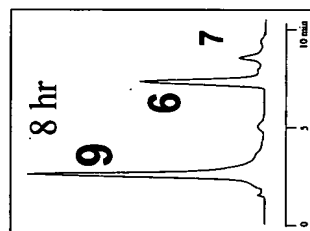
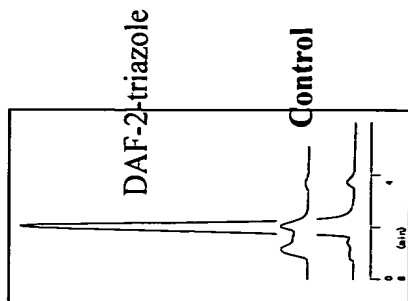
Figure 11



- 1) Reaction of DAF-2 and **7** at room temperature at pH 3 for 20 min
- 2) pH adjustment to 10 with NaOH

DAF-2: 10 μ M
 DNA(1): 7 μ M
 DNA(4): 8 μ M

Confirmation of NO in **7** by
 DAF-2 triazole detection



- 1) Isolation of **9** by HPLC
- 2) Lyophilization
- 3) Reaction of DAF-2 and **9** at room temperature at pH 3 for 20 min
- 4) pH adjustment to 10 with NaOH

DAF-2: 10 μ M
 DNA(1): 7 μ M
 DNA(4): 8 μ M

Confirmation of NO in **9** by
 DAF-2 triazole detection

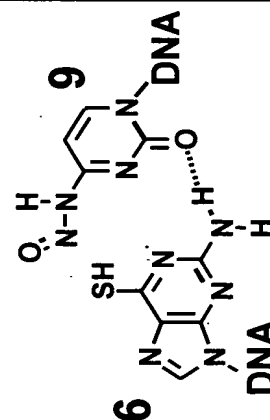
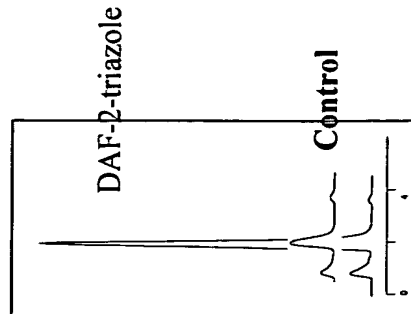


Figure 12

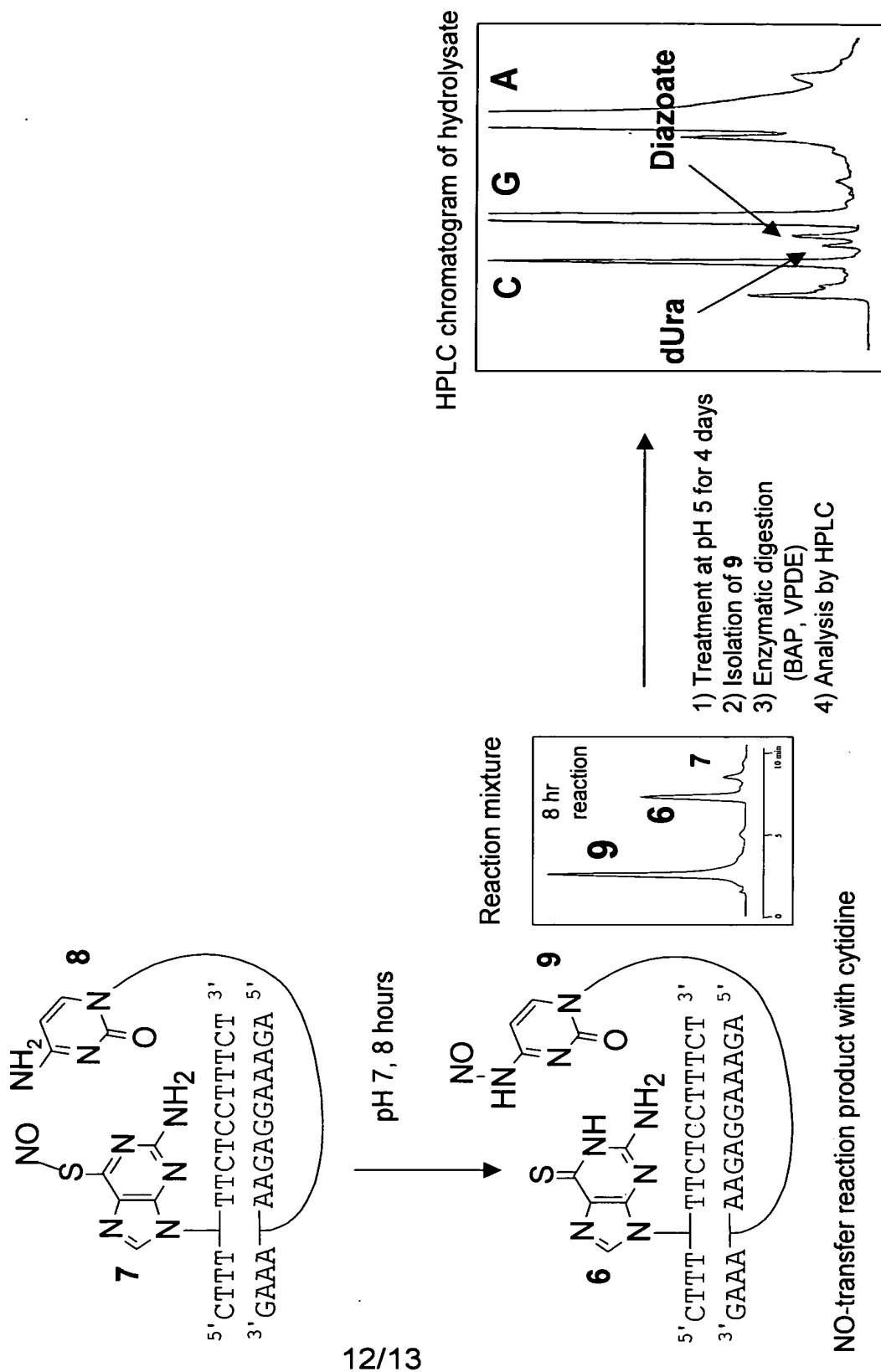
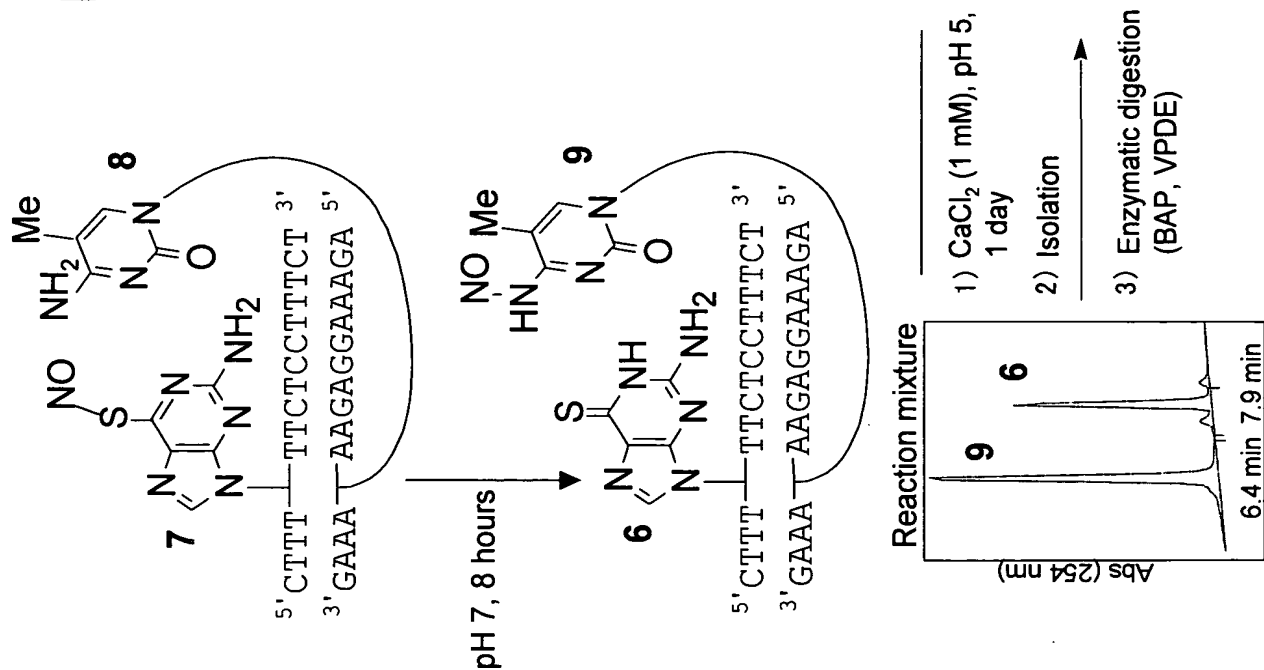


Figure 13



NO transfer reaction product with 5-methylcytidine

* represents 5-methylcytidine diazoate form